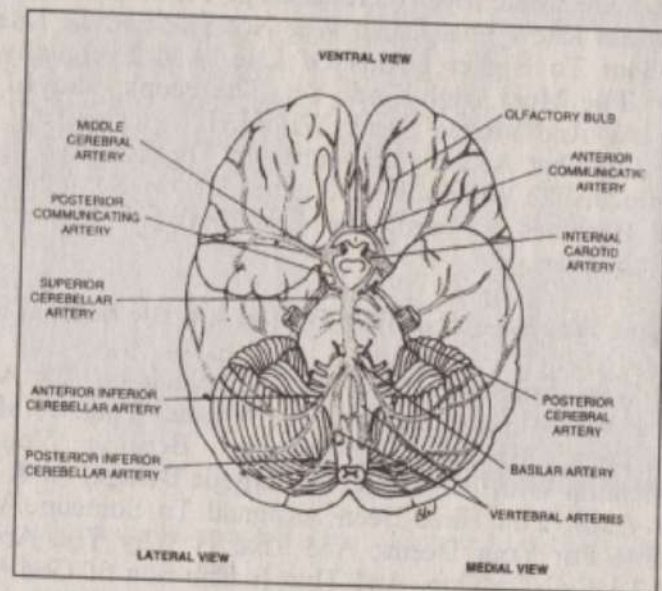


**Angelic Being (Eloheem).** So Before The Birth Of **Seth** You Were Able To Contact The **Angelic Beings** At Random When You Still Had Your **Barathary Gland**, Which Was Originally Inside Of The Cavity Of The **Hippocampus** Area Of The Brain, In The Lower Part Of The Cerebellum.

The Cerebellum Is Located At The Lower Part Of The Brain And Is Attached To The Brain Stem. It Was A Gland In The Brain That Was Originally Connected To The Appendix And The Tonsils; The Same Way The Pituitary Gland Connects To The Thyroid Gland.



**Figure 12 The Hippocampus Area Of The Brain Where The Barathary Gland Was Located**

According To Sumerian Doctrine, Since The **Angelic Beings** Were Displeased With What Was Made, The Seed Of Adam Was Put Under A Spell, **The Spell Of Leviathan (Job Chapter 41)**. Before I Continue, I'd Like To Touch On What This Spell Was.

This Is An **Evil Hypnotic Spell Of Amnesia**, from the word *Nesia*, "to Forget" from the Galilean **Nas** (ناس), and Hebrew **Nas** (נָסָה) meaning "forgetful". The Spell of Amnesia Is A Sleep Of The Conscious Mind That Was Cast On Negro-African American People. It Is A Spell Of Racial Blindness, Hate For Self And Kind; Not Knowing Who The Devil Really Is, Or His Many Shapes And Forms. He Or She Could Be Anyone Because The Devil Comes In Many Forms And Races, And Possesses Negro-African American People To Work For And Even Kill For Him, And Against Their Own. These Are The **Black Devils**. **Leviathan** Was Set The Laws Named After The Serpent Leviathan, Which Is A Giant Sex And Spirit Force That Has Been And Still Is Being Used To Rule You; Keeping You In A State Of Loss, Not Knowing Your Purpose And Your True Identity; Who Your **God** Is And How You Can Regain His Forgiveness And Grace To Restore Your Soul Before It's Too Late (**Psalms Chapter 23**).

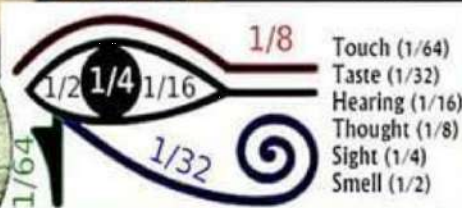
So Now, You Have To Work Your Way Back Through **Obedience**, Something Which Was Proven Time And Time Again That Homo Sapiens Are Unable To Do. For Example:

1. In The **Garden of Eden** When **Adam** And **Eve** Touched The Tree.
2. With **Cain** And **Abel** When They Tested Their Natures By Saying That They Both Prepare A Meal In **Genesis 4:3-4**. **Abel** Had A Good Meal And The **Angelic Beings** Respected Him. However, **Cain** Just Threw Anything Together And Said "Here". The **Angelic Beings** Did Not Respect His Offering. The **Angelic Beings** Even Told Him He Could Go Back And Do It Right And Repent In **Genesis 4:6-7** Where It States: "And The **LORD** Said Unto **Cain**, Why Art Thou Wroth? And Why Is Thy Countenance



WADIET

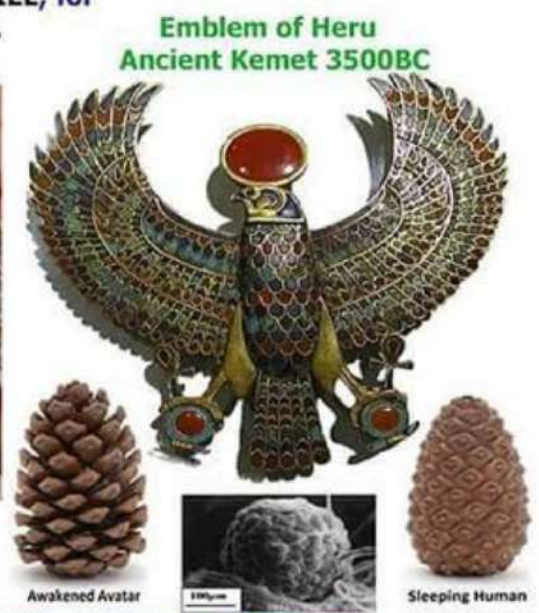
1/2	SMELL
1/4	SIGHT
1/8	THOUGHT
1/16	HEARING
1/32	TASTE
1/64	TOUCH



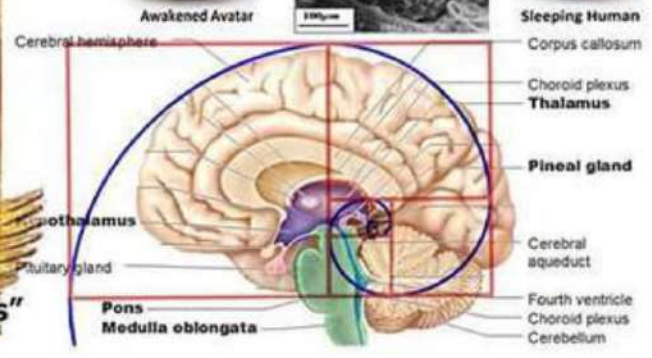
The light of the body is the eye: If therefore thine EYE BE SINGLE, thy whole body shall be full of light. Matt. 6:22  
And Jacob called the place PINIEL; for I have seen God FACE TO FACE. Genesis 32: 30



The All Seeing Eye of Horus is the Seat of the Soul & sits in the middle of the human brain! It is shaped like a tiny pine cone.

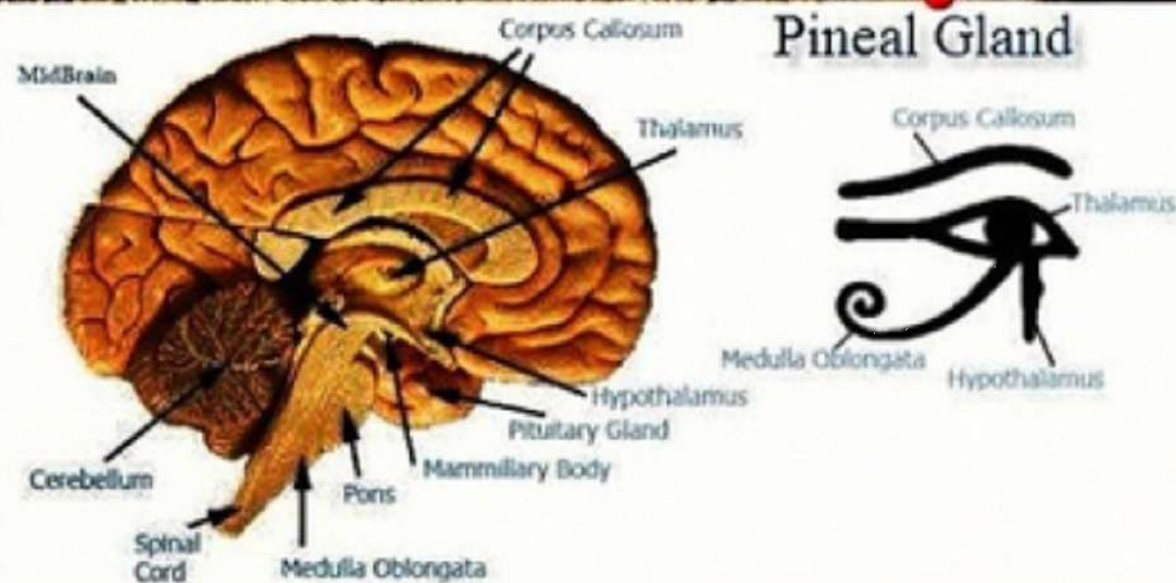
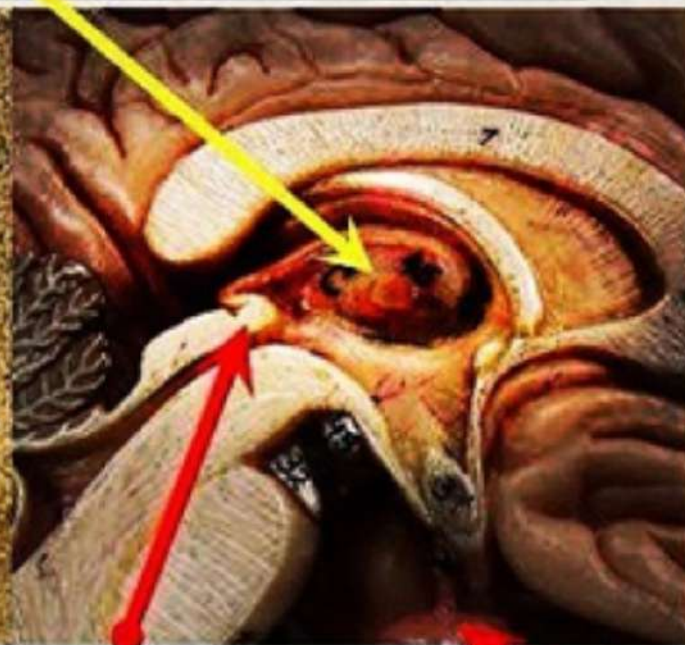


"unto you that fear my name shall the Sun of Righteousness arise with healing in his wings" Malachi 4:2





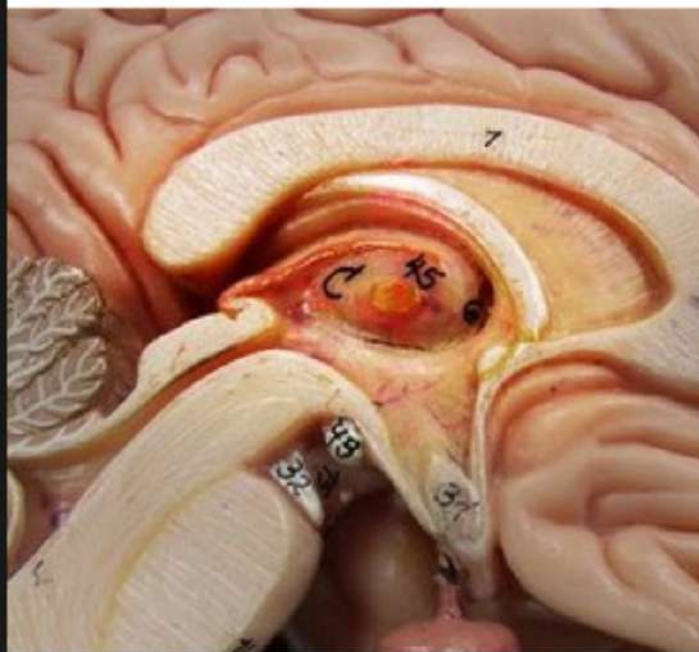
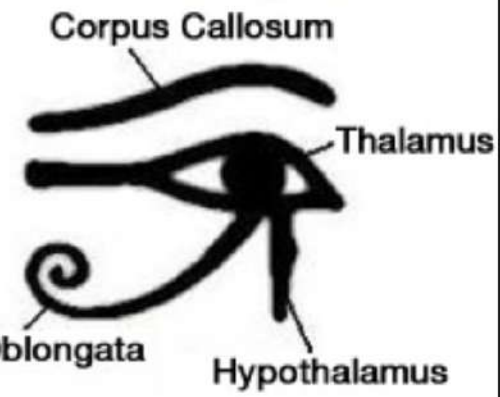
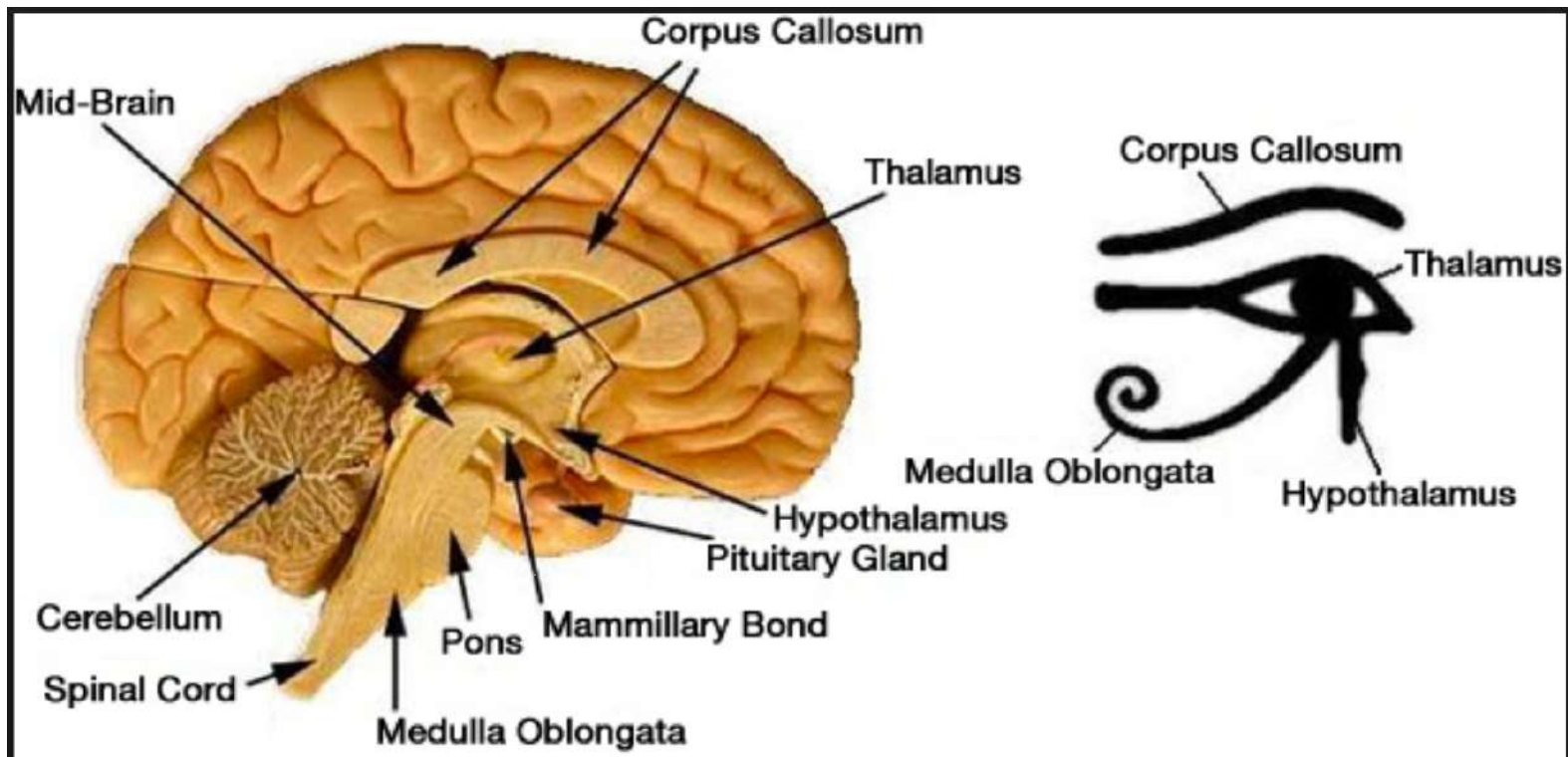
## Third Eye - Thalamus - Eye of Horus



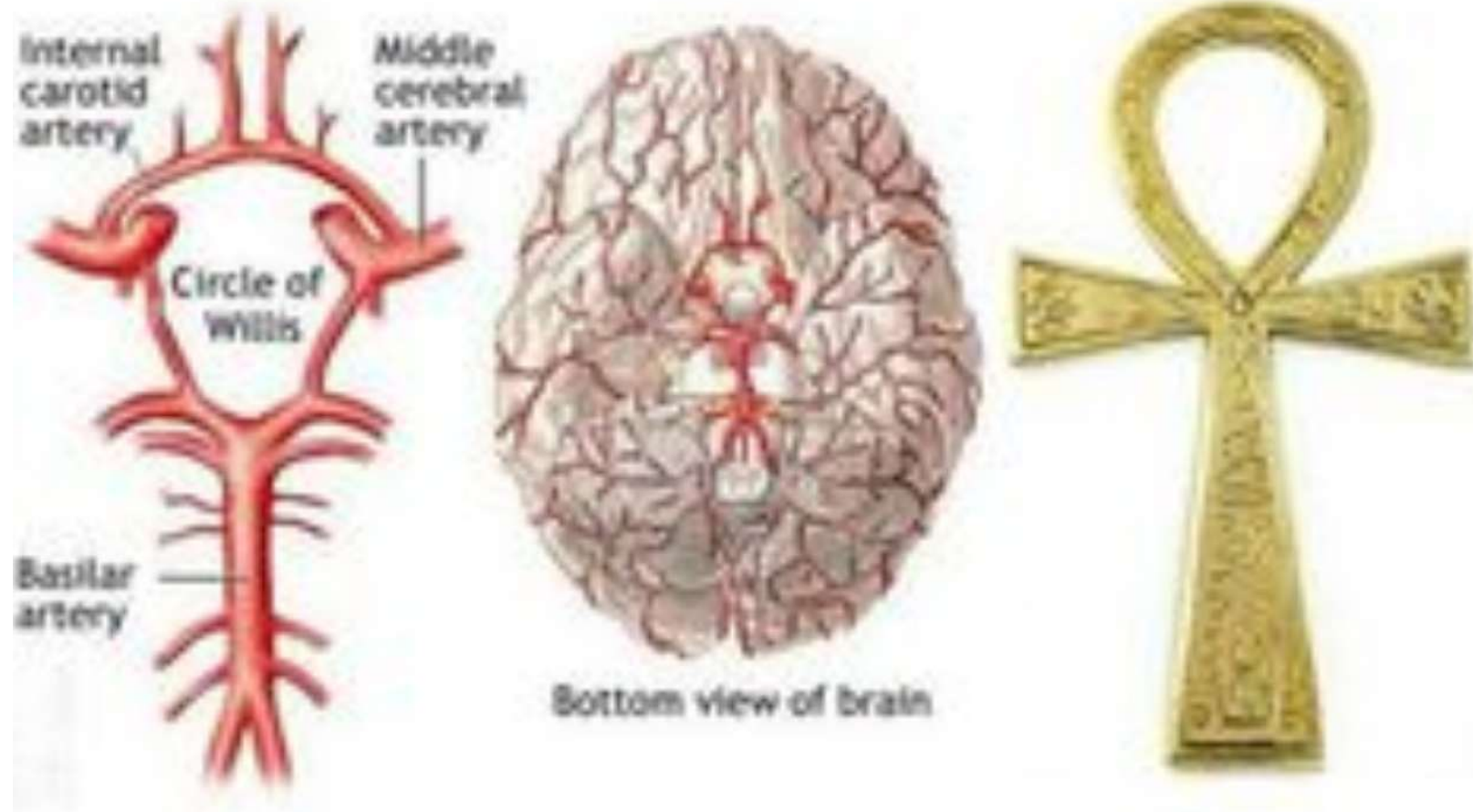
Pineal Gland

Pituitary Gland





# "CIRCLE OF WILLIS"



## AND THE KEMETIC ANKH



**HORUS THE WINGED  
ONE-EYED GOD**

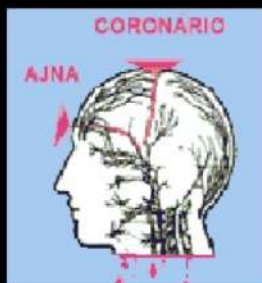


**HORUS O Deus  
Alado e Caolhos**

**Wotan the Winged  
One-Eyed God!**



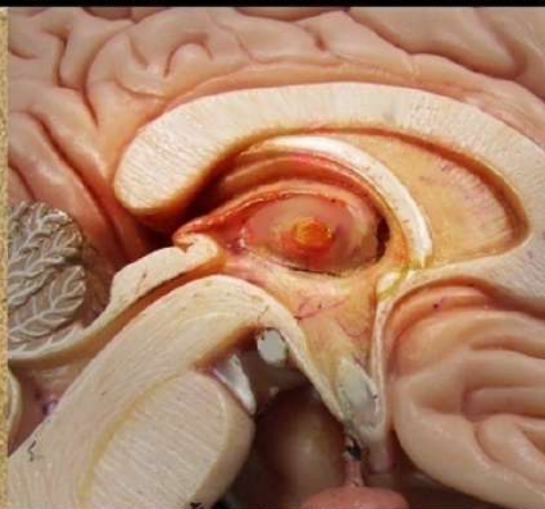
**Wotan o Alado  
Deus Caolho!**



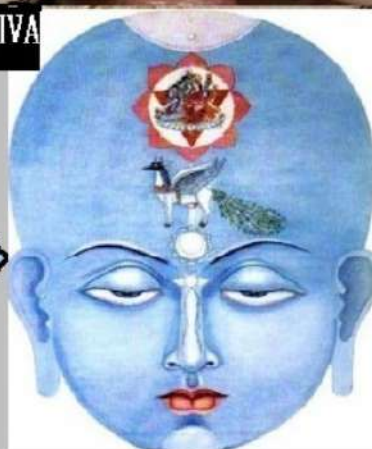
**HORUS EYE - OLHO DE HORUS**



**PITUITARY - GLÂNDULA PITUITÁRIA**



**SHIVA EYE - OLHO DE SHIVA**



O Pentagrama na Testa de Baphometh, simboliza o desperta da Mulher e do Homem, em seus 5 sentidos e Cinco Elementos, despertados pela atividade da Pituitária, através da real prática do conhecimento antigo.



The pentagram on the forehead Baphometh symbolizes, the awakened of the Woman and the Man, on your 5 Senses and Five elements, awakened by the activity of the pituitary, by real practice ancient knowledge.

**Wotan the Winged  
One-Eyed God!**

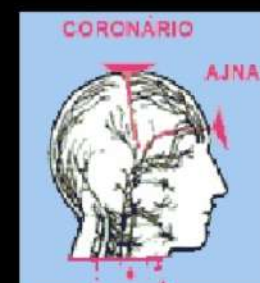


**Wotan o Alado  
Deus Caolho!**

**HORUS THE WINGED  
ONE-EYED GOD**



**HORUS O Deus  
Alado e Caolhos**







Staff of Osiris  
with Pine Cone



Staff of Dionysus  
with Pine Cone



Staff of Bacchus with  
Pine Cone



Pope with  
Pine Cone Staff



Assyrian Deities  
(Gods) with Pine  
Cones in their  
hands



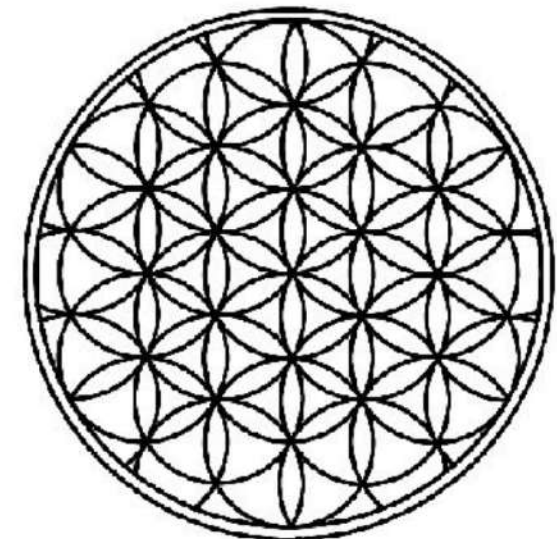
The Largest Pine Cone  
Statue in the World is in  
Vatican City



Temple with structures shaped like Pine Cones



Top of a open Pine Cone



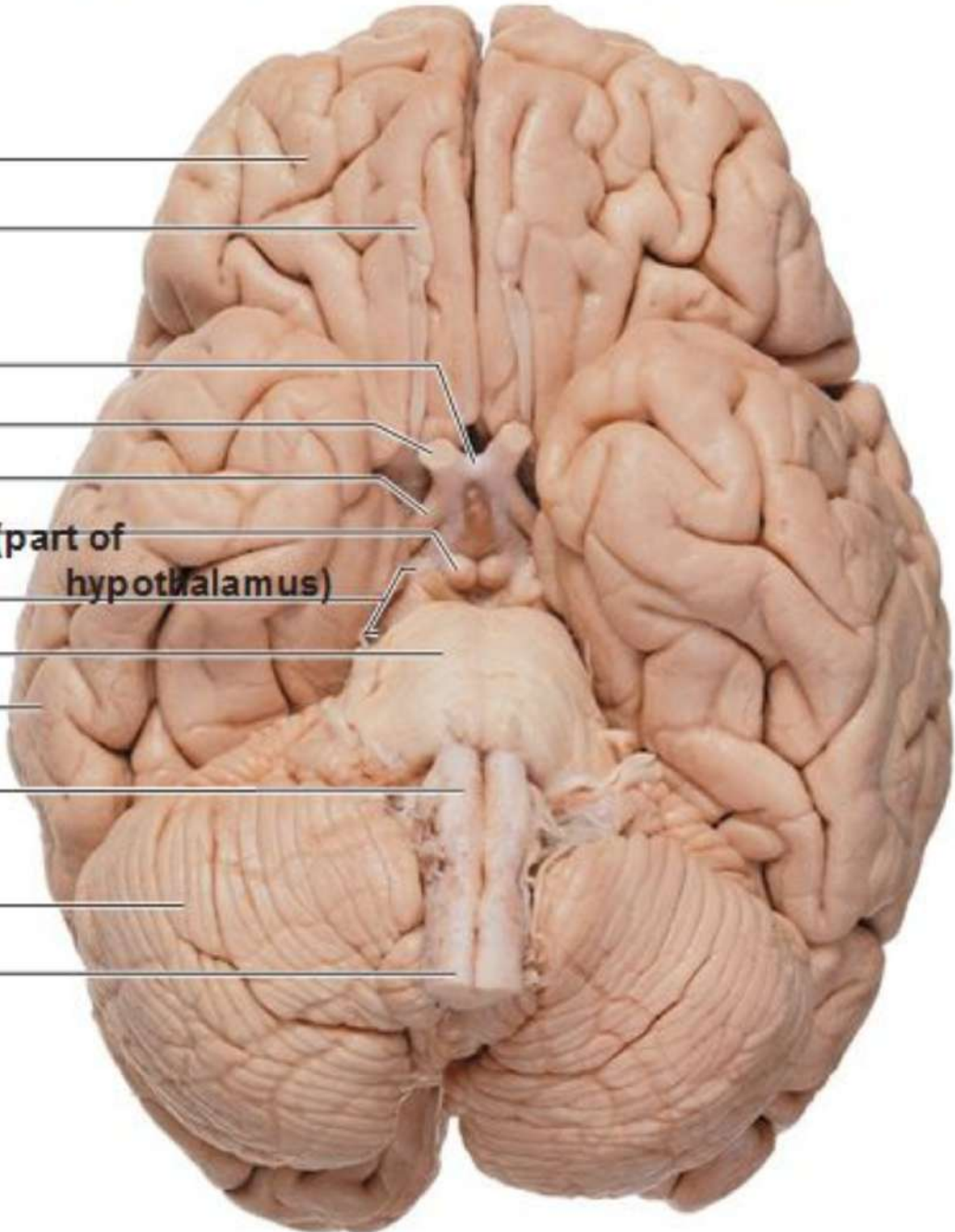
The Flower of Life symbol








# Ventral View of the Brain

- 
- A detailed anatomical illustration of the ventral view of the human brain. The image shows the underside of the brain, including the cerebral hemispheres, brainstem, and cerebellum. Labels with leader lines point to various structures: Frontal lobe, Olfactory bulb (synapse point of cranial nerve I), Optic chiasma, Optic nerve (II), Optic tract, Mammillary body (part of hypothalamus), Midbrain, Pons, Temporal lobe, Medulla oblongata, Cerebellum, and Spinal cord.
- Frontal lobe
  - Olfactory bulb (synapse point of cranial nerve I)
  - Optic chiasma
  - Optic nerve (II)
  - Optic tract
  - Mammillary body (part of hypothalamus)
  - Midbrain
  - Pons
  - Temporal lobe
  - Medulla oblongata
  - Cerebellum
  - Spinal cord



The conscious mind controls our brain only **5%** of the day, whereas the subconscious mind has a hold of our thoughts **95%** of the time!

conscious 5%




subconscious 95%

## 66.66667% FAT

Your brain is two-thirds fat. Myelin, the protective sheath covering your neurons is 70% fat. Eating fatty fish, green leafy vegetables, olive oil, avocados, chia seeds, flax seeds, and nuts, replenish your neurons and brain cells.

You have **70,000** thoughts per day



Boost your brain power with Meditation, it's proven to increase IQ, relieve stress, and promote higher learning levels.


## Listen to Music

Studies have proven that listening to music strengthens the brain and literally changes the structure.



## Thoughts Are Real

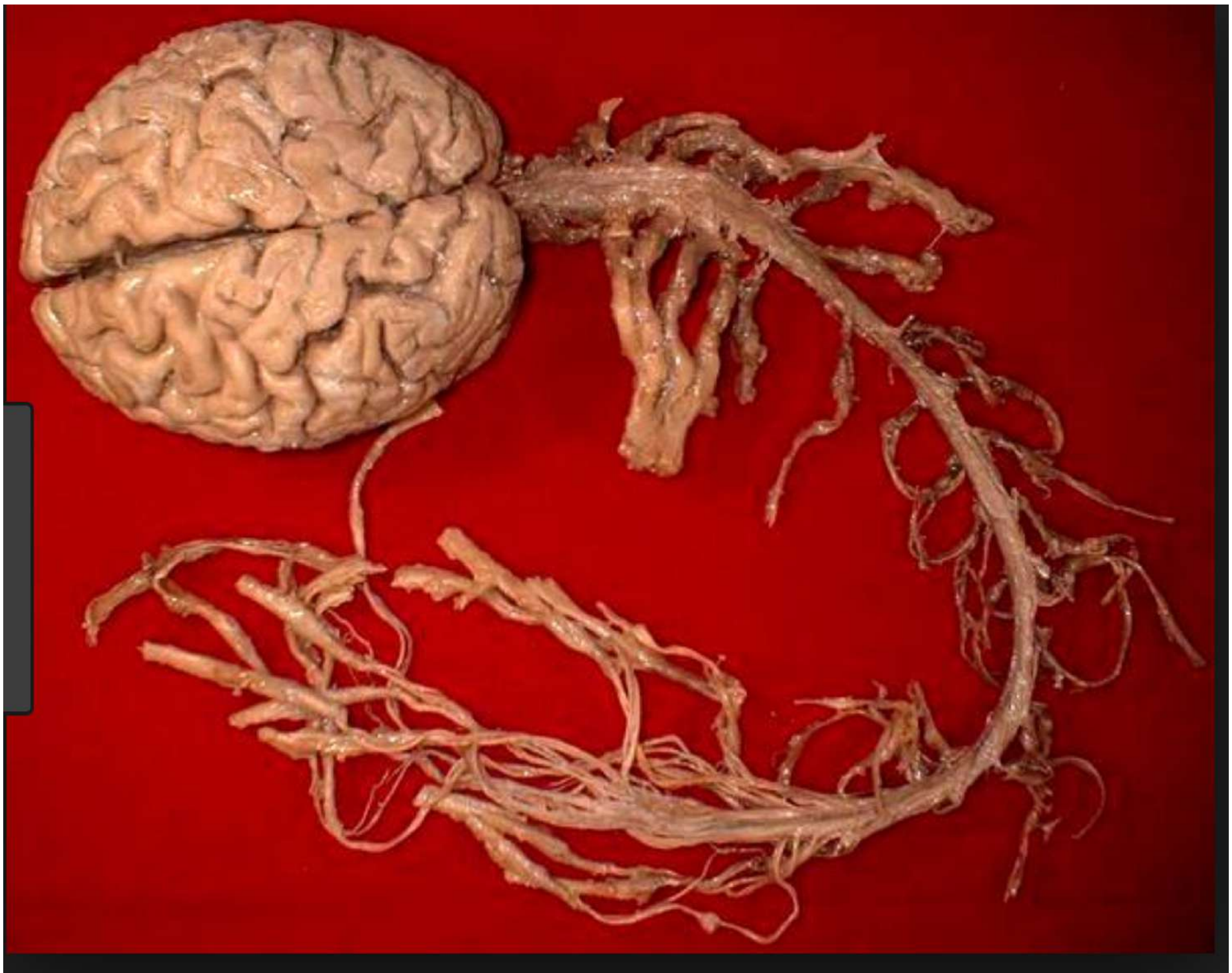
Your thoughts cause biological and physiological effect - Your body responds to mental input as if it were physically real.



Loss of fatty acids EPA and DHA are linked to depression, Parkinson's and Alzheimer's

[www.undergroundhealthreporter.com](http://www.undergroundhealthreporter.com)









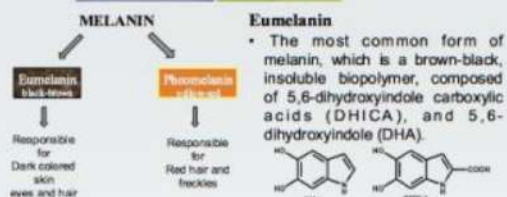
# Progress Towards the Study of Metal Chelating Properties of Eumelanin-Inspired Small Molecules

Victor Ekehchiadi, Santosh Adhikari, Toby L. Nelson  
Department of Chemistry, Oklahoma State University

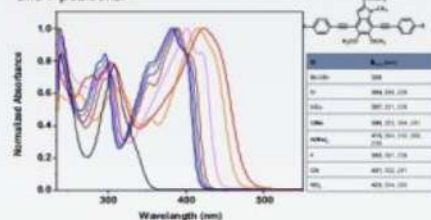


## Introduction

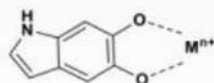
- Melanin is a pigment that is produced by cells known as melanocytes in the skin of most animals, including humans. This pigment comes in different shades, depending on the genetic make-up of the individual. Melanin comes in two basic forms, and can range from yellowish-red to dark-brown. The lack of melanin is responsible for albinism.



- Nelson *et al.* showed that eumelanin-inspired small molecules had high light absorption ranging from UV to IR region (visible range). They also demonstrated that optoelectronic properties of these molecules can be altered by changing the different substituents at 5 and 7 positions.<sup>1</sup>



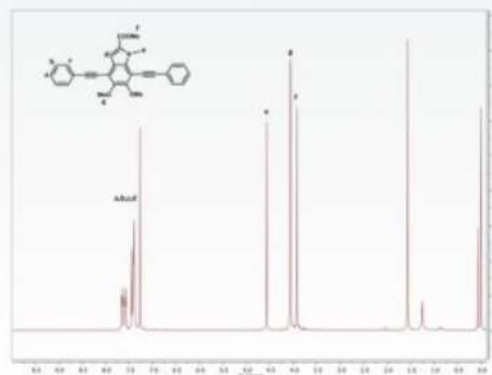
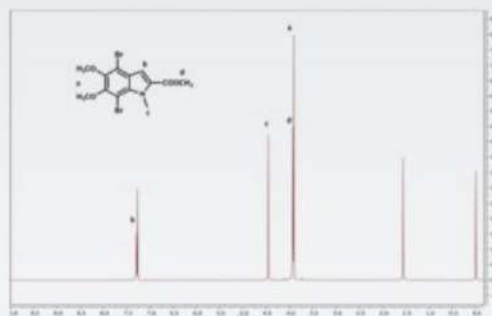
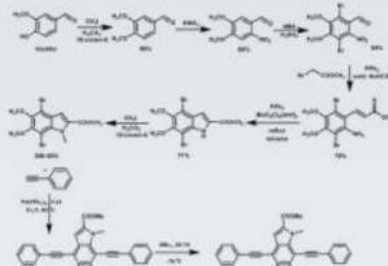
- Farmer and his co-workers worked on metal binding by melanin and showed that melanin molecules have high affinity for metal ions. His work also determined the nature of metal binding sites, and quantified binding affinities of different metals ions like copper and zinc.<sup>3</sup>



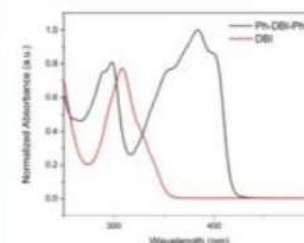
- The objective of this research is to synthesize eumelanin-inspired small molecule from vanillin extract and to study their metal chelating properties for their potential application in sensing different metals ions and water remediation.

## Results and Discussion

### Synthesis



### UV-vis spectra of DBI and Ph-DBI-Ph



## Conclusion

- Eumelanin-inspired core molecule (DBI) have been successfully synthesized.
- Eumelanin-inspired small molecule have been synthesized by Sonaghashira coupling reaction, and characterized by NMR and UV-visible spectroscopy
- The deprotection of methyl indoylene ether has been attempted.

## Future Direction

- Deprotection of DBI methyl indoylene ether .
- Synthesis of eumelanin inspired small molecule from deprotected DBI molecule.
- Synthesis of eumelanin inspired molecules with different protecting groups in the 5,6 position (esters).
- Metal (Zn,Fe) binding to eumelanin inspired small molecules in the 5,6 position

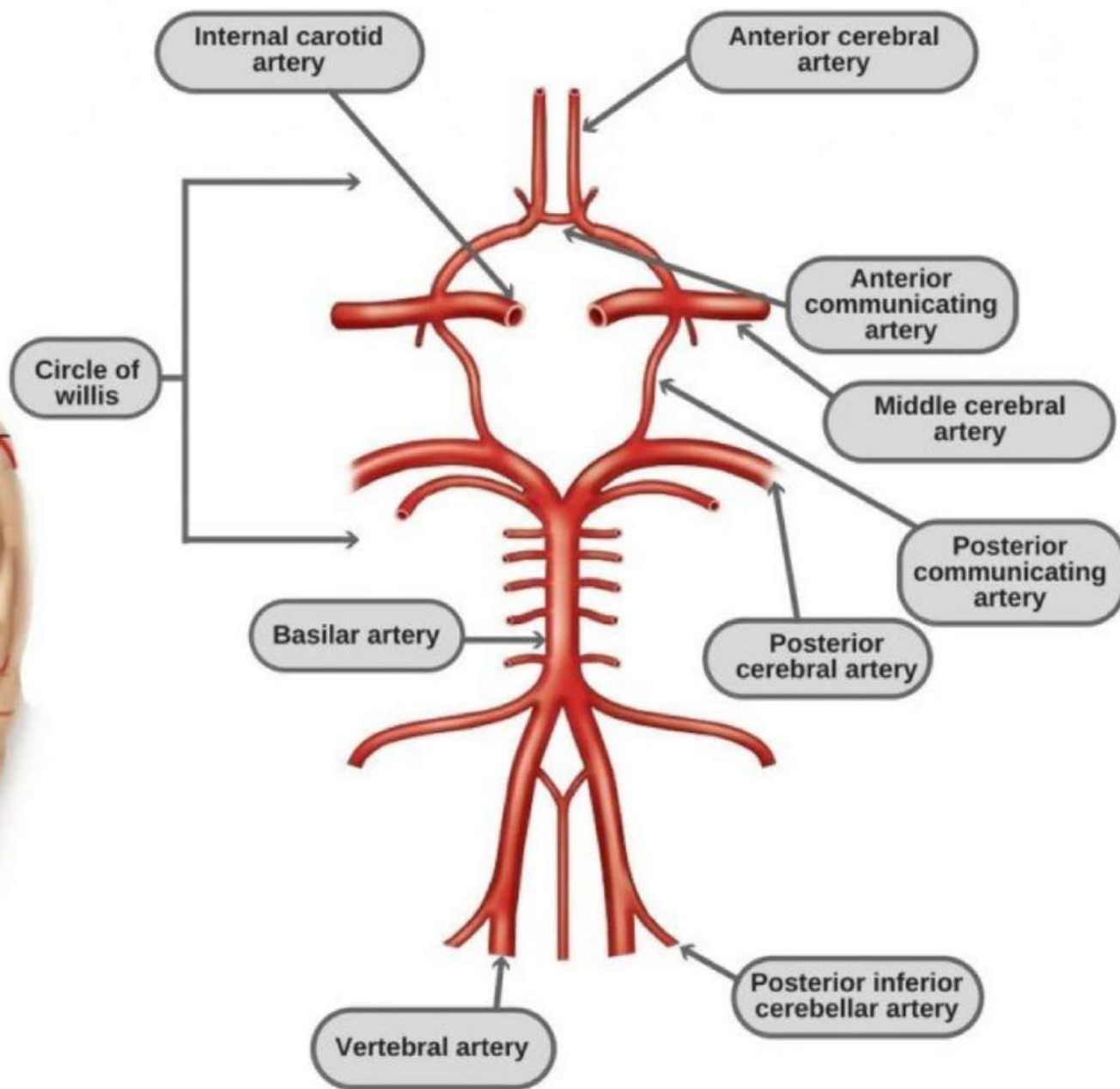
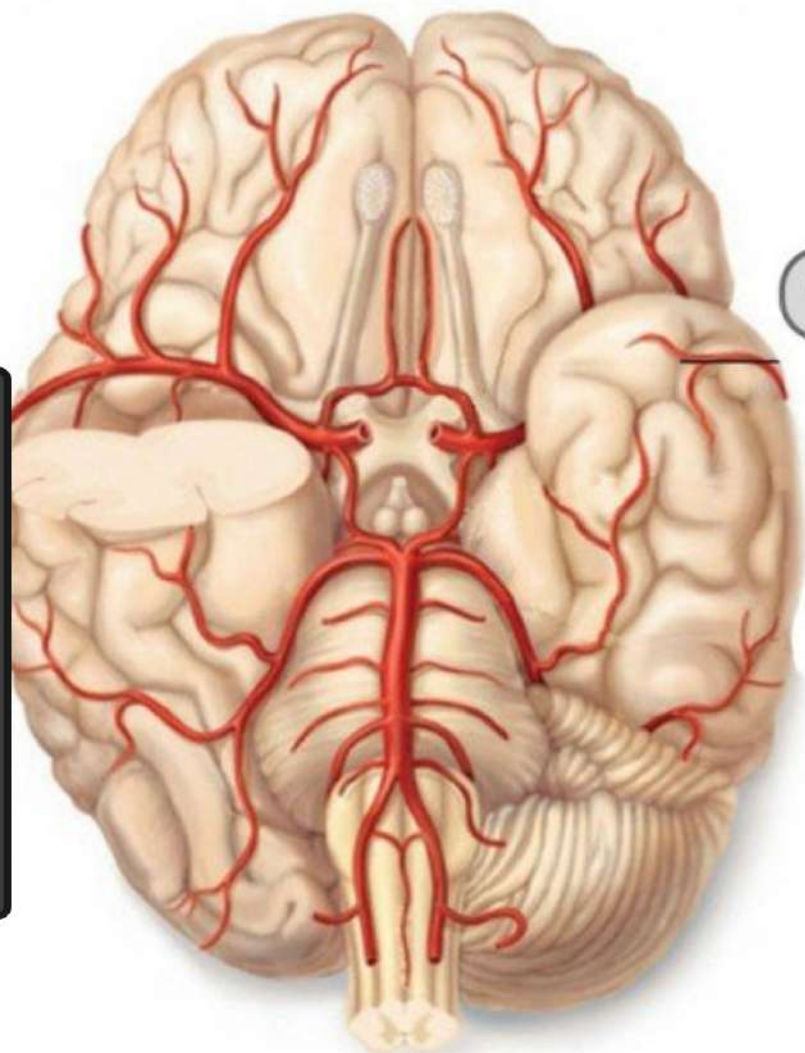
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## Acknowledgement

- Wentz Research Grant
- Ok-LSAMP







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Germany



USA



Poland



Navajo



Tibet



Peru



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Anglo Saxon



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HOPi



CHINA



JAPAN



ISLAMIC



TIBET

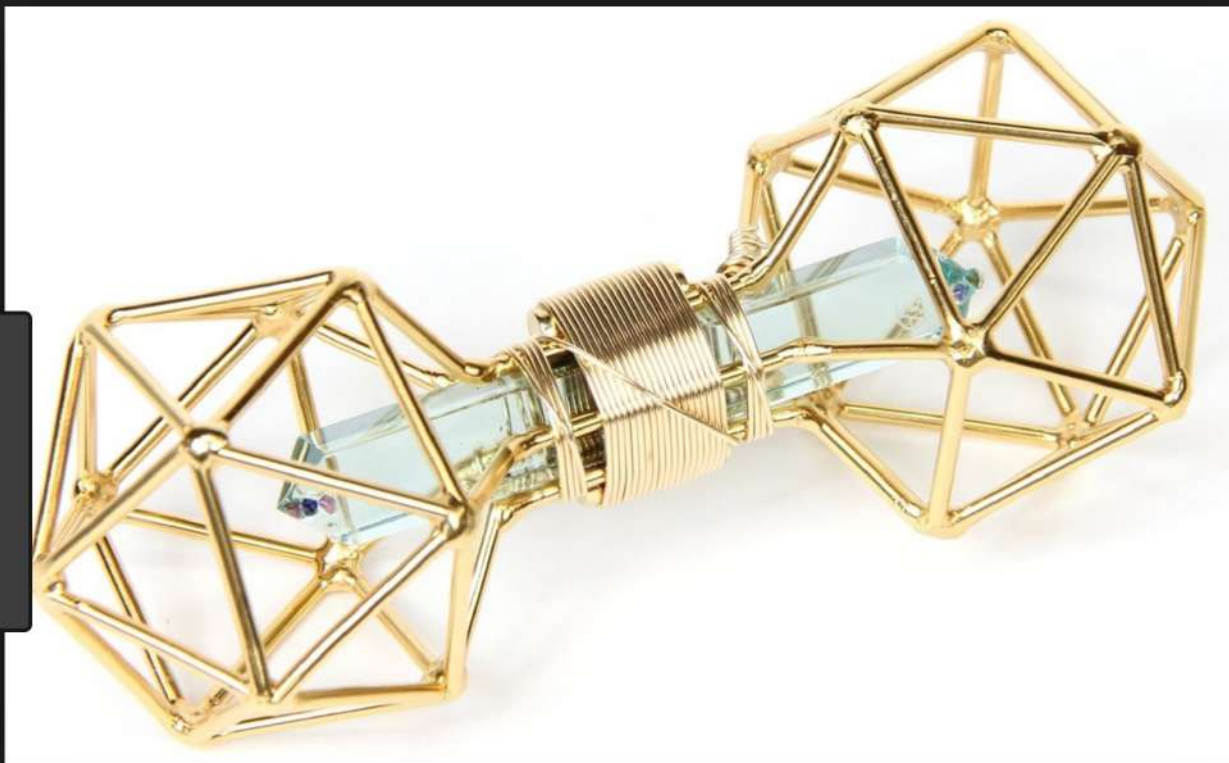




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VAJRA





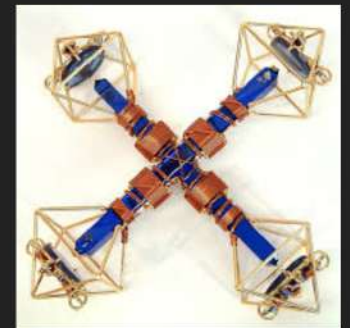
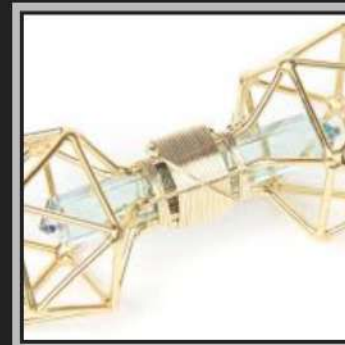
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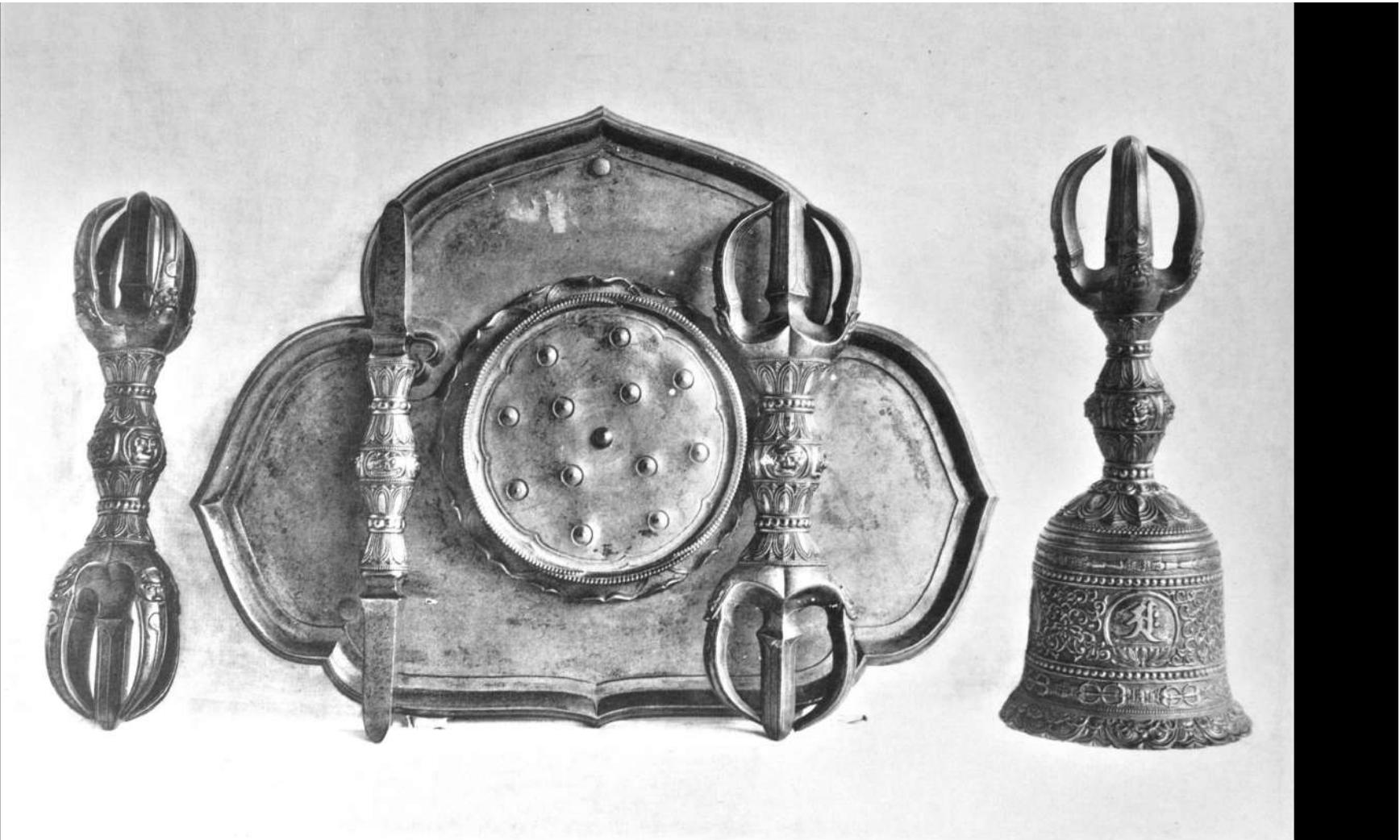
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Five ritual objects used in Vajrayana from the Japanese island [Ise](#): a five-pronged short club (vajra) (五鉈杵 *gokosho*), a pestle with a single sharp blade at each end (独鉈杵 *tokkosho*), a stand for vajra pestle and bell (金剛盤 *kongōban*), a three-pronged pestle (三鉈杵 *sankosho*), and a five-pronged bell (五鉈鈴 *gokorei*)





### Symbolism of the Ghanta Bell

Please refer to descriptions in  
*Buddha Weekly* <http://buddhawebweekly.com>

18. The Vajra crown, embodiment of the five Buddhas
17. Lotus of the Vajra crown
16. Wisdom face: Prajna Paramita (or Yidam)
15. Longevity vase of nectar
14. Six rings representing 6 perfections
13. Lotus throne of mandala deity
12. 8 Goddesses (seed syllables)
11. 8 Bodhisattvas (petals)
10. Eight-Petal Lotus
9. Vajra Platform
8. Offering Goddess Platform
7. The 8 Faces of Glory
6. 8 Bodhisattvas
5. Earth disc
4. Lotus womb
3. Vajra fence
2. Necklace of light
1. Disc of space



## 1. Buddha Figures with Buddha Appearance

- Shakyamuni Buddha
- Medicine Buddha
- Amitabha/Amitayus Buddha
- Vairochana Buddha
- Nagaraja Buddha
- Meru Shikara Buddha
- Muni Trisamaya Vyuha
- Buddhas of the Three Times
- Maitreya: Buddha of the Future
- Buddha's of the Six Realms
- Seven Supreme Buddhas of this Age
- Buddhas of the Ten Directions
- Twelve Dzogchen Buddhas (4 forms)
- Thirty-five Confession Buddhas
- Others....



1. Buddha Appearance.  
Example: Shakyamuni Buddha

## 2. Buddhas that DO NOT have typical Buddha Appearance:

- Vairochana
- Amitayus
- Akshobhya
- Ratnasambhava
- Amoghasiddhi
- Vajradhara
- Vajradharma
- Vajrasattva
- Samantabhadra
- Twelve Dzogchen Buddhas (8 forms)
- Meditational Deities (ishtadevata)
- Others....



2. Buddha without Buddha Appearance. Example: Vajradhara

## 3. Human Figures with Buddha Characteristics

- Rahula (arhat)
- Nagarjuna
- Garab Dorje
- Padmasambhava (several forms)
- Sakya Pandita
- Others....



3. Human Figures with Buddha Appearance.  
Example: Nagarjuna



# TYPES OF PARTHENOGENESIS

- ◎ *Tychoparthenogenesis* Parthenogenesis or **Facultative parthenogenesis** is the term for when a female can produce offspring either sexually or via asexual reproduction. Facultative parthenogenesis is extremely rare in nature.
- ◎ Examples - mayflies, insects
- ◎ **Obligate Parthenogenesis**- Obligate parthenogenesis is the process in which organisms exclusively reproduce through asexual means. Examples- Lizards, fishes



# Apomixis

- **Apomixis:** Development of seed or embryo without fertilization (sexual fusion).
- **Obligate Apomixis:** A plant which reproduces only by asexual reproduction.
- **Facultative Apomixis:** A plant which has the potential to reproduce either sexually or asexually. Both process may occur simultaneously or one may be predominant.



# *Micromalthus debilis* life cycle

Adult Female



NO  
SEXUAL  
REPRODUCTION  
ANYMORE

Adult Male



HEAT



HEAT

pupal development

ANCESTRAL CYCLICAL PARTHENOGENESIS

pupal development

**Triungulin**  
legged,  
migratory larva



PRESENT PAEDOGENESIS

**PAEDOGENETIC CYCLE**  
Thelytoky  
Viviparity

**Cerambycoid**  
mother larva w/  
triungulin daughters



**Dead End**  
Male larva  
inside, eating  
mother

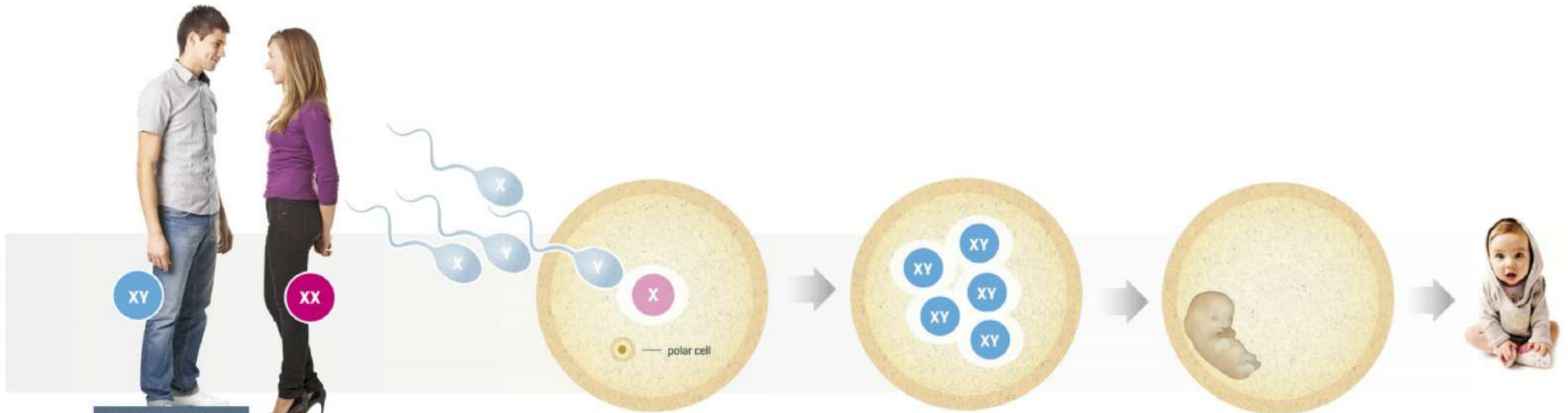


**Male Egg**  
Arrhenotoky  
Oviparity



Male Larva is a  
PRESENT DEVELOPMENTAL ARTEFACT





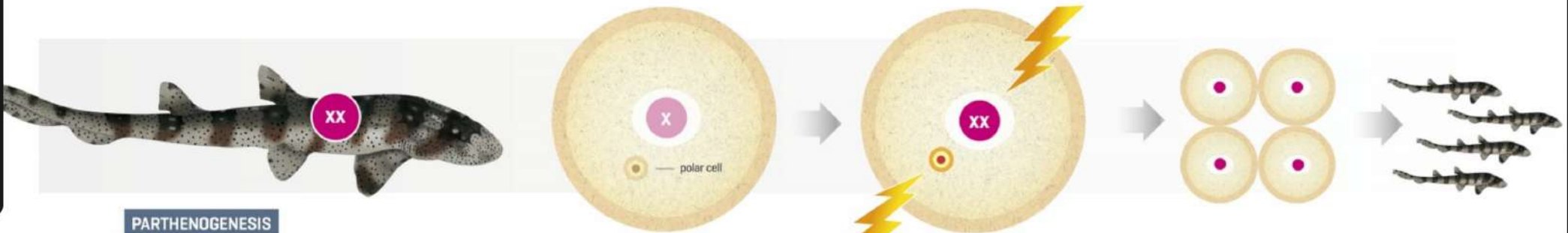
### THE XX/XY SYSTEM

1 The XX/XY sex-determination system is found in humans, most other mammals, and some insects. Females have two of the same kind of sex chromosome [XX], while males have two different sex chromosomes [XY].

2 The male sperm cell determines the sex of an individual. If a sperm cell containing an X chromosome fertilizes an ovum (egg cell), the resulting zygote will be XX, or female. If the sperm cell contains a Y chromosome, then the resulting zygote will be XY, or male. The polar cell, a by-product of oogenesis [the creation of the ovum] degenerates during fertilisation.

3 Soon after fertilisation, the fertilised cell will begin dividing rapidly to form a cluster of cells called a blastocyst. The inner group of cells will become the embryo. The outer group of cells will become the membranes that nourish and protect it.

4 When it reaches the uterus, the blastocyst will burrow into the uterine wall for nourishment. This is called implantation. About 14 days after conception, the blastocyst becomes an embryo, then a fetus after 10 weeks.



### PARTHENOGENESIS

1 Like her human counterpart, the female white spotted bamboo shark has XX sex chromosomes. During a process called meiosis the cells divide into four, one of which survives to become the egg, while the other three become polar cells, usually discarded.

2 The egg carries half of the female's chromosomes. Typically, these chromosomes get paired with male's set, which are contained in the sperm. But sometimes, in the absence of a male, something very unusual happens.

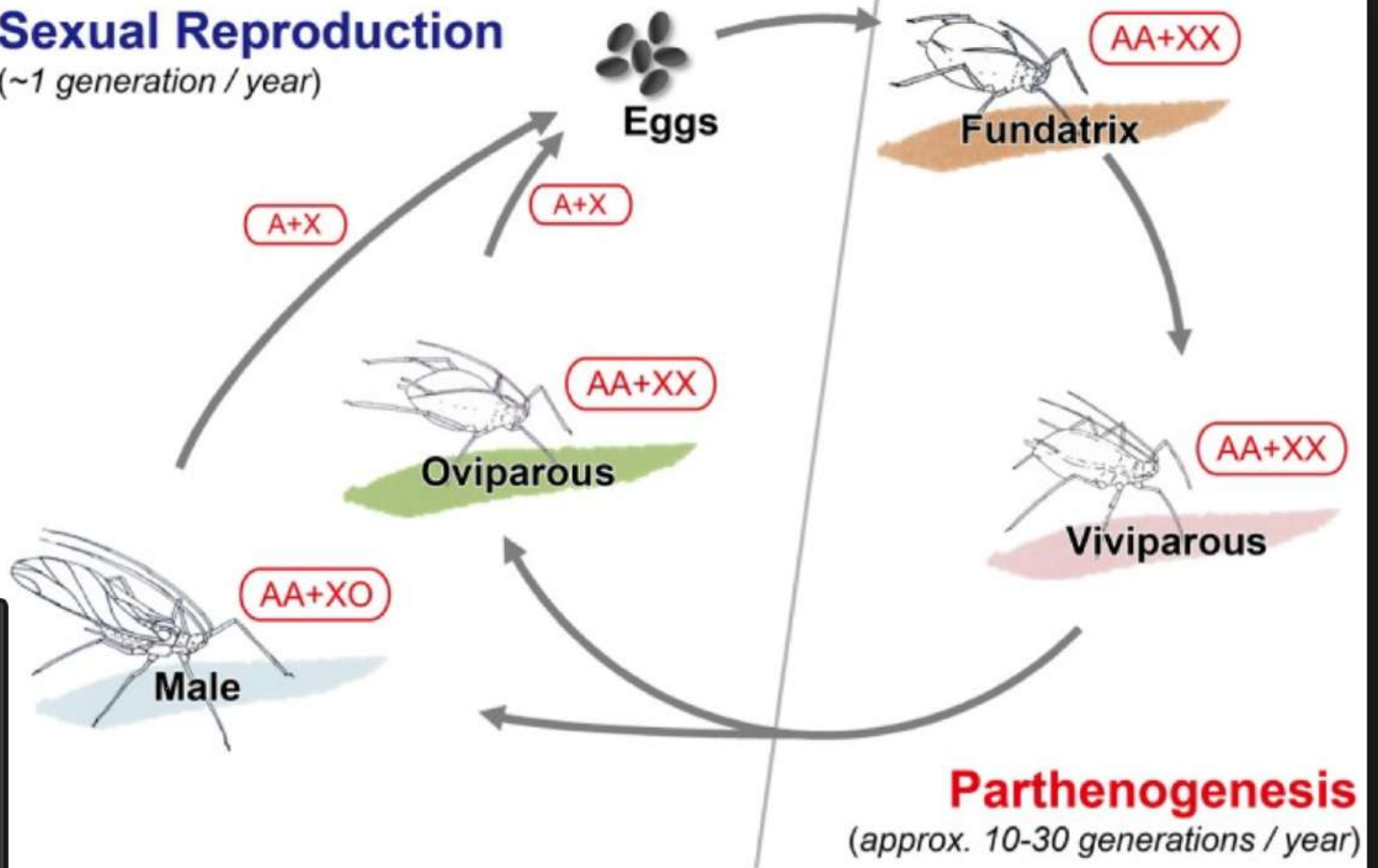
3 While nobody knows for certain, the most widely circulated theory is that some kind of stimulus causes a polar cell to fertilise the egg, adding the extra chromosomes. The newly formed zygote will always be female, but will have only its mother's genes.

4 The zygote then divides through a process known as mitosis, in which each cell doubles by dividing into two cells. The female then lays egg cases, each containing a developing shark embryo. The embryos feed solely on the yolk and it can take up to three months for the pups to hatch.

**A**

## Sexual Reproduction

(~1 generation / year)



## Sexual Reproduction

**C**

## Parthenogenesis





# Parthenogenesis

- Some insects such as bees and aphids will reproduce by **parthenogenesis**.
- During this process and **UNFERTILIZED** egg develops into an adult.
- For example the queen bee lays both fertilized and unfertilized eggs. The fertilized eggs will develop into female workers and the haploid eggs into male drones which mate with the queen.



Haploid drone

Queen

Diploid worker



Turkeys



Komodo Dragons

Certain species can reproduce  
**without a fertilized egg.**

This ability is called *parthenogenesis*,  
or unisexual reproduction.



Cape Bees



Burmese Pythons

Source: Britannica, University of Wisconsin-Madison Department of Animal Sciences



A newt can regenerate an entire limb within 7-10 weeks.



**Growth  
cycle**



**3-6 weeks**



**6-9 weeks**

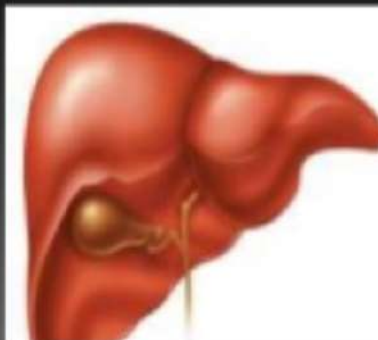
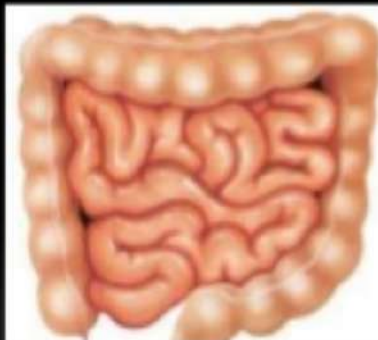
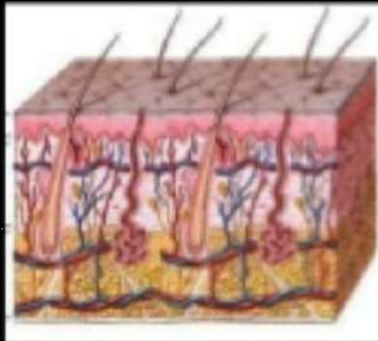


**1 week**



# Regeneration in Humans

High



Moderate

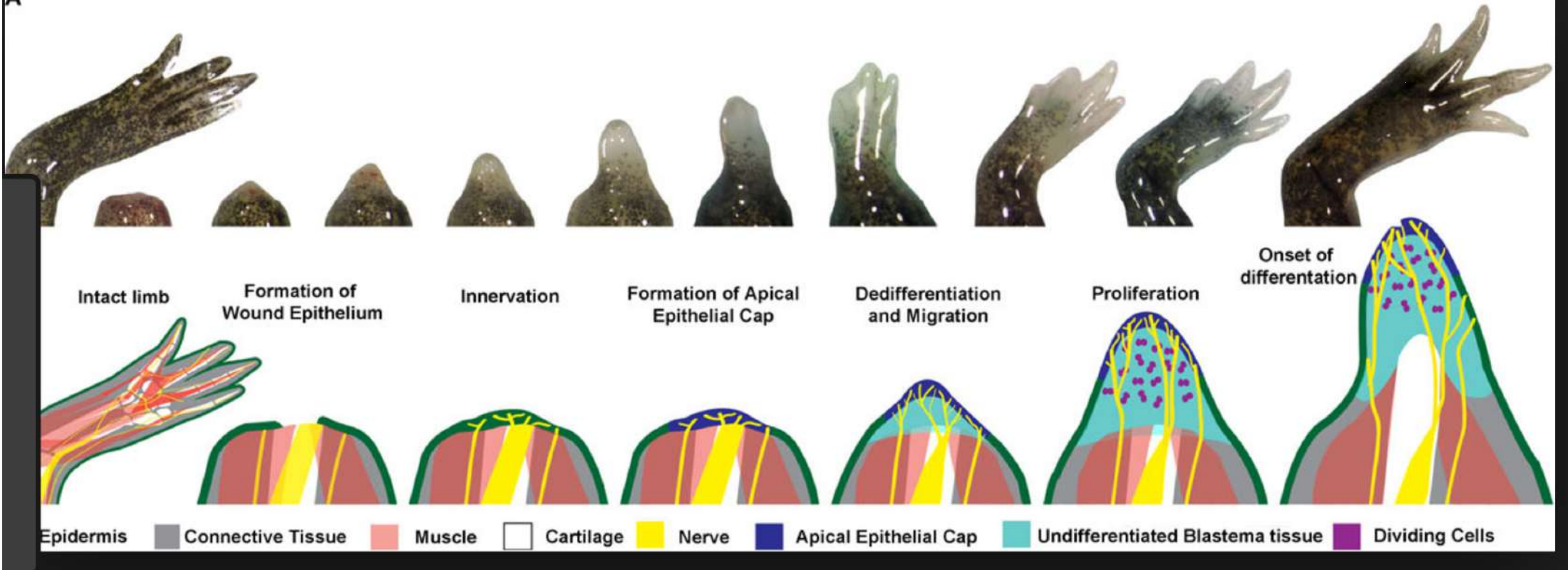


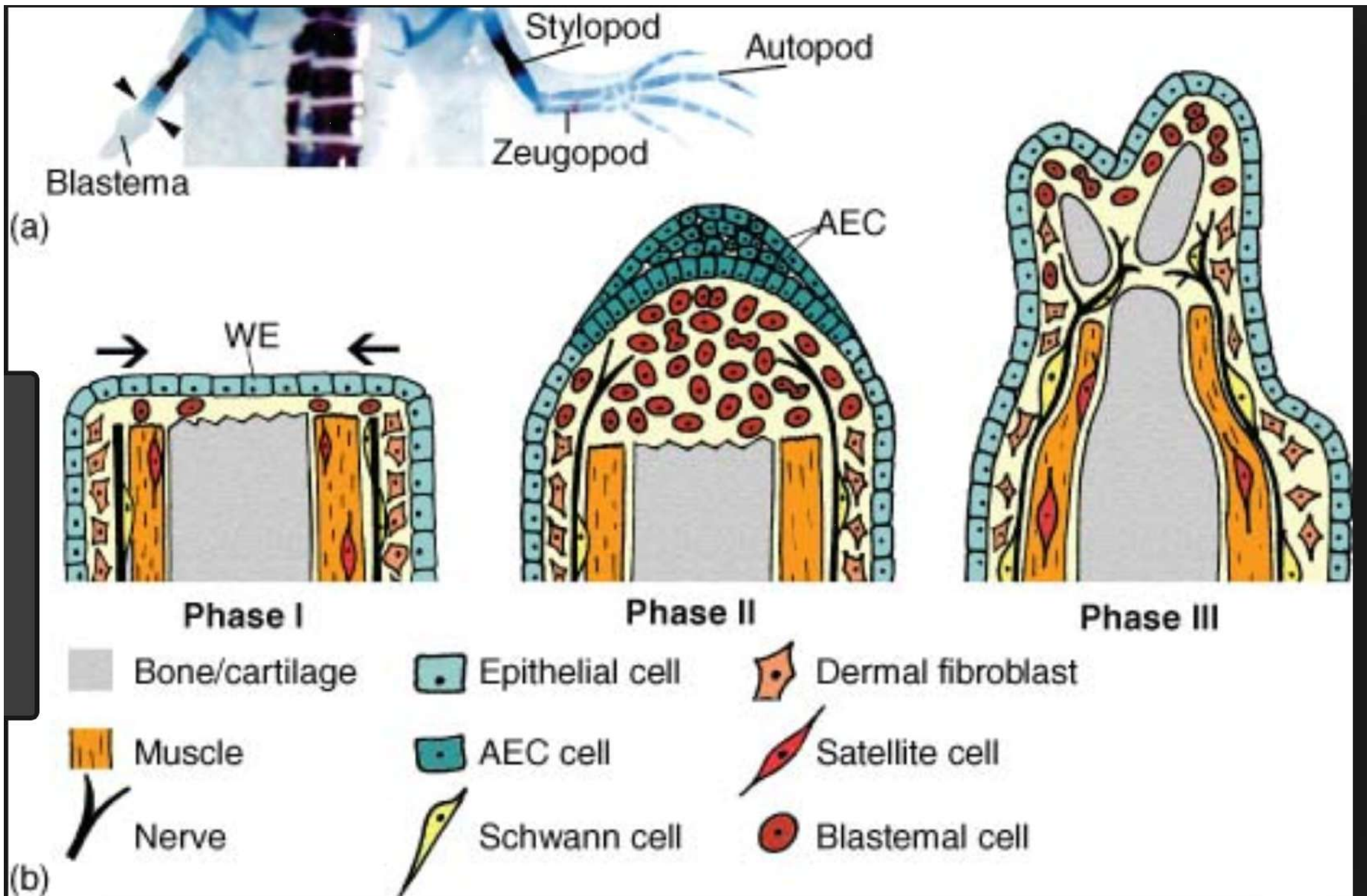
Low



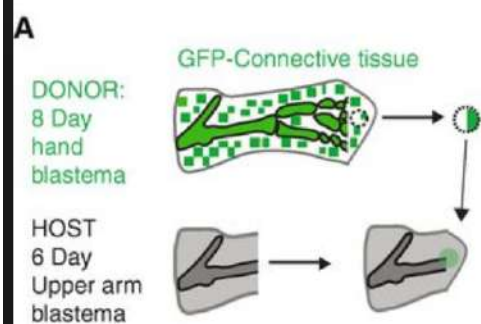


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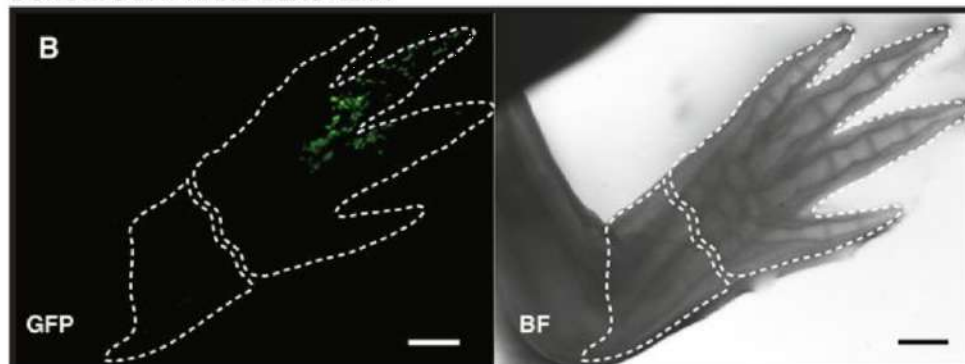




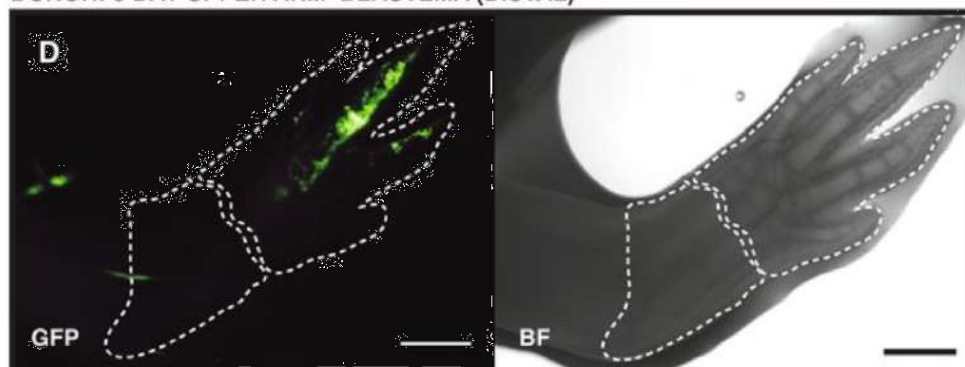
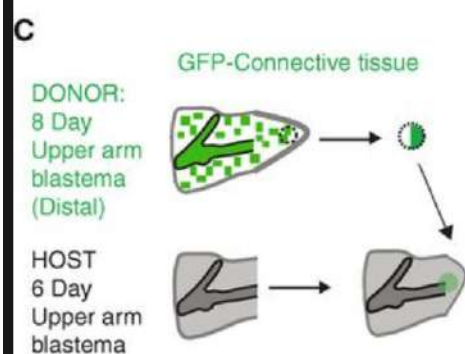




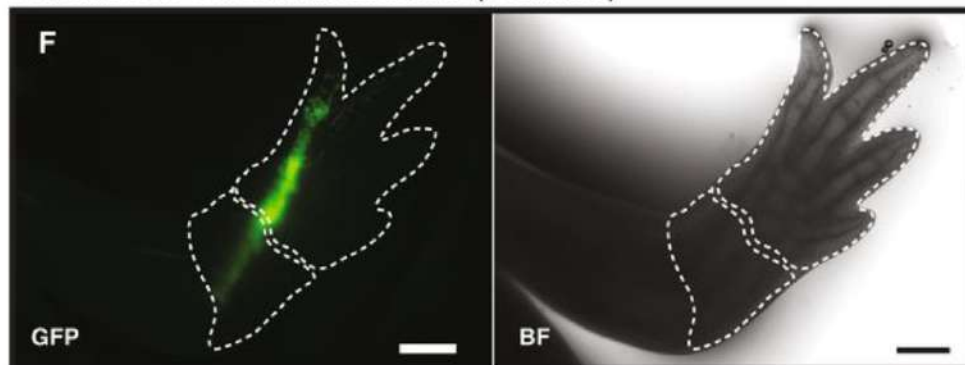
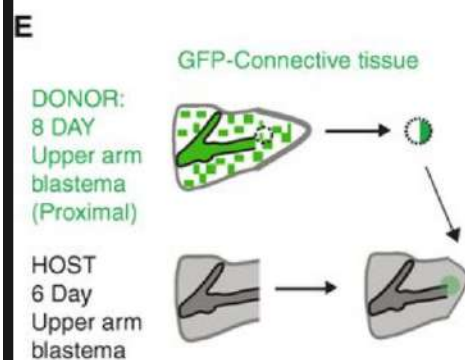
DONOR: 8 DAY HAND BLASTEMA



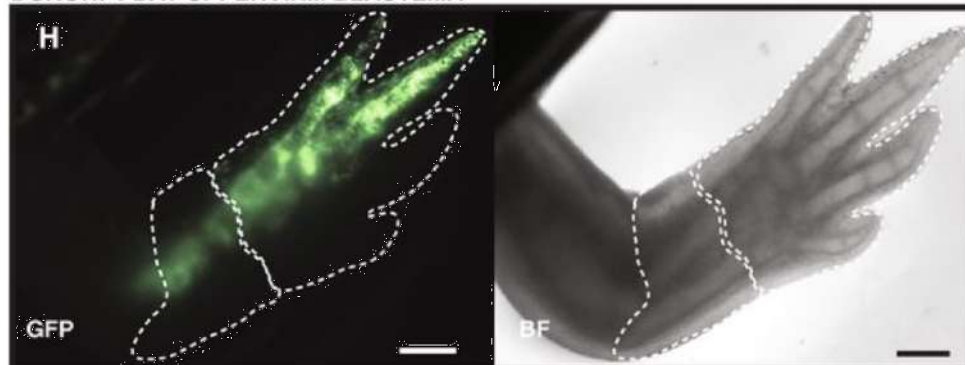
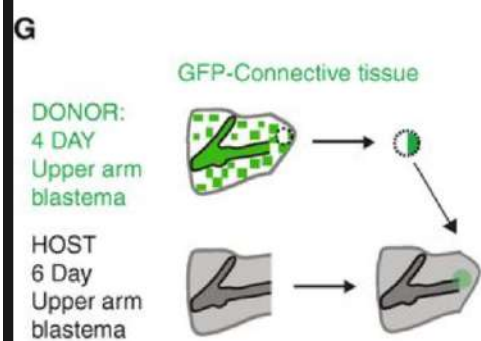
DONOR: 8 DAY UPPER ARM BLASTEMA (DISTAL)



DONOR: 8 DAY UPPER ARM BLASTEMA (PROXIMAL)

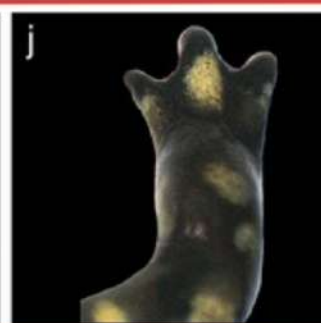
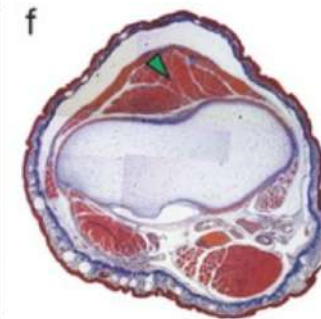
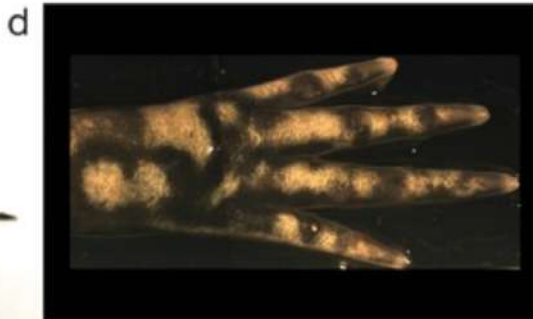
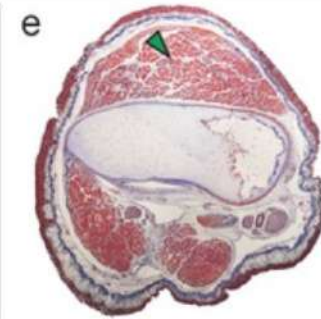


DONOR: 4 DAY UPPER ARM BLASTEMA



J

Hand BL



Blastema

Cone

Palette

Early Diff

Diff

405 days







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## Hand Mudras: How to use the Vajra and Bell



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Tibetan Buddhist ritual instruments used in offerings, including the Damaru, the Bell and the Vajra. Photo © YoWangdu.













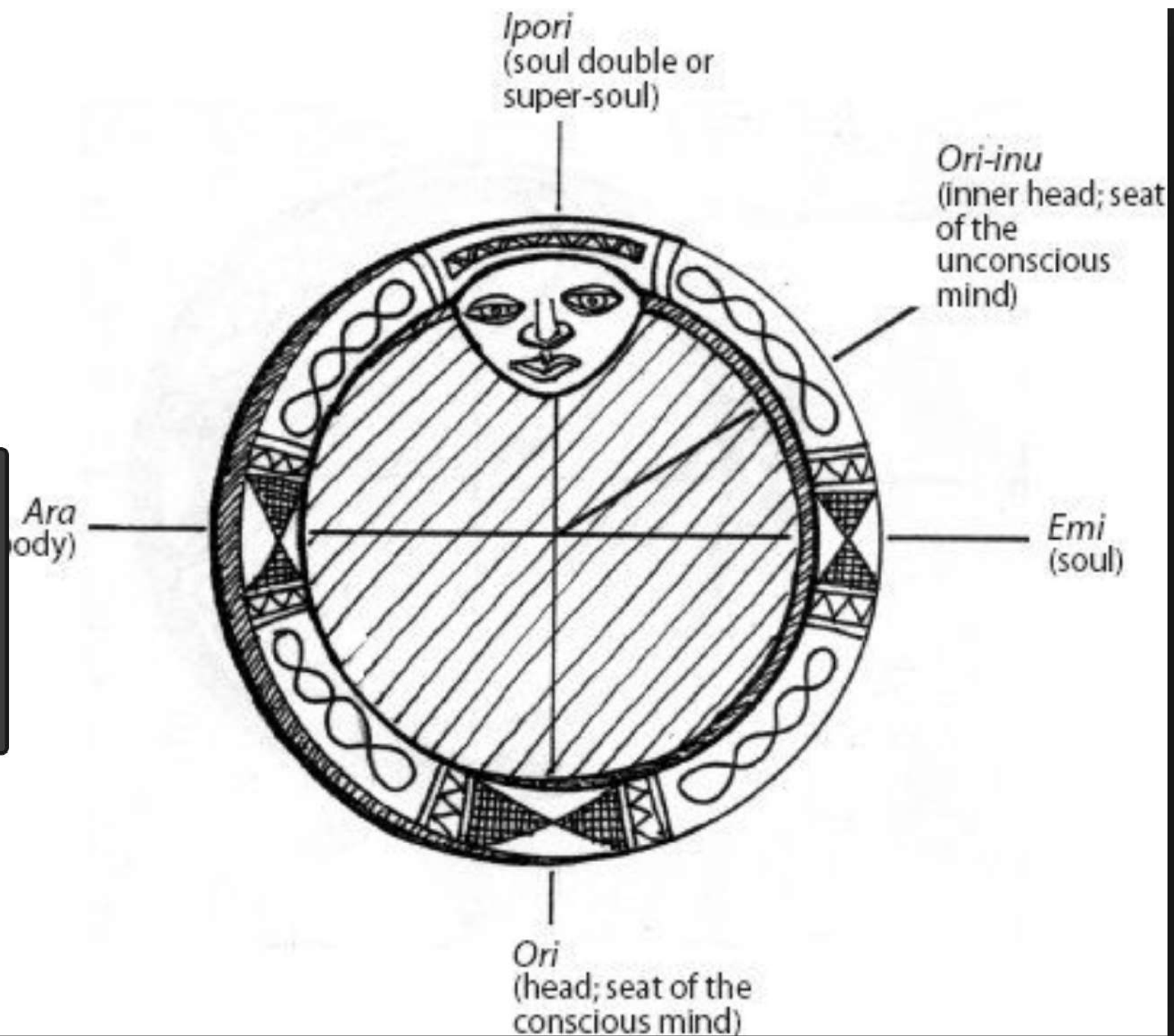














YORUBA - ODUDUWA, ORUMILA, OBATALA - ORISHA - NATURE/NETER - 3RD EYE ORUNMILA, CROWN ORI, HEART OGUN, YEMOJA WOMB, THROAT OBATALA, NAVEI OSHUN, ROOT SHANGO - OLOKUN/NEPTUNE/POSEIDON- ABORU ABOVE ABOSISE/ MY SACRAFICE HAS BEEN BLESSED AND ACCEPTED



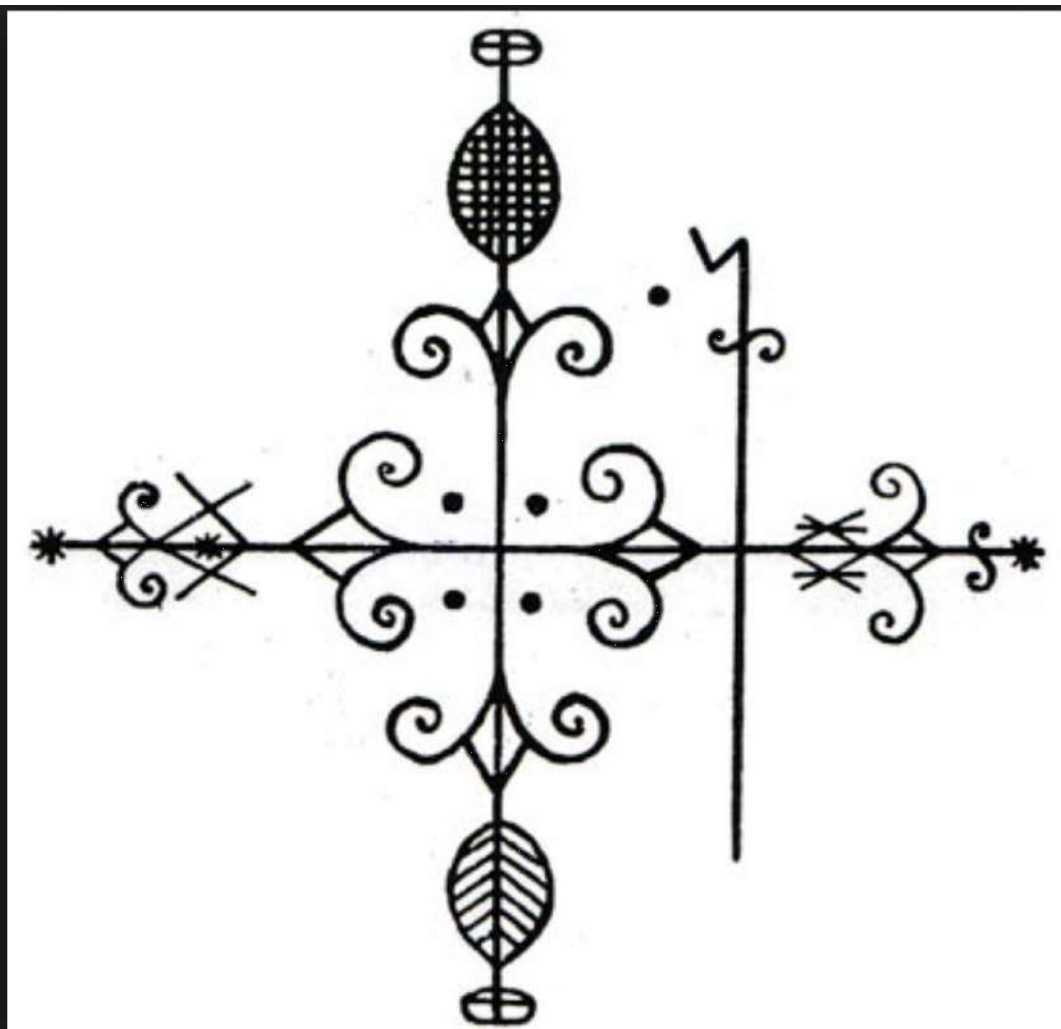


**Pl.12 Divination Tray** (*opón Ifá ribiti*) Attributed to the artist Areogun (ca. 1880–1954) or his atelier, Ifá, first half 20th century  
Òsì-Ìlorín, Èkìtì Region, Nigeria, Wood, 21 x 20 x 1 3/4 in.



16 COWRIE SHELLS





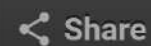
# What is the difference between

Santería Church of the Orishas

Veves ...

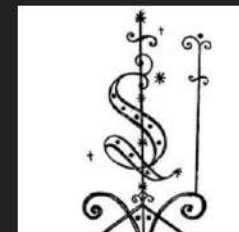
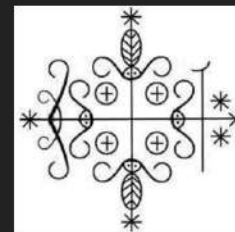
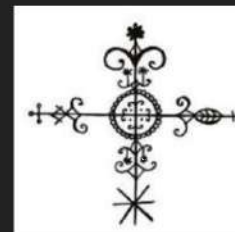
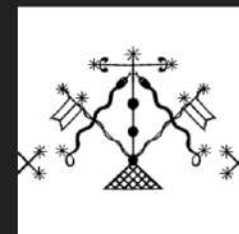
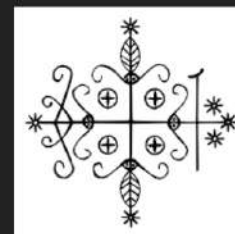
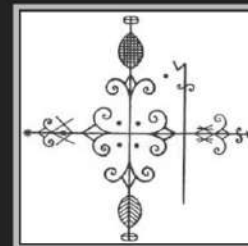


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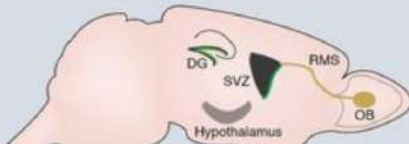
Related images:



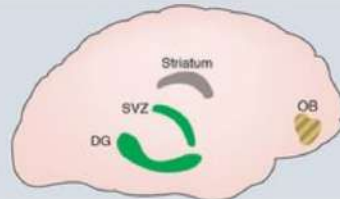
## Sites of neurogenesis in the adult mammalian brain

Neural stem/progenitor cells (NSPCs) reside in the dentate gyrus (DG) and the subventricular zone (SVZ) of the adult mammalian brain (green). These cells provide a constant supply of new neurons for pre-existing neural circuits, such as the olfactory bulb (beige). Additional sites of neurogenesis appear to be comparable between the rodent and the human DG, whereas neurogenesis in the human OB is either extremely low or absent. Whether neurogenesis occurs in the human hypothalamus is currently unknown.

### Mouse brain



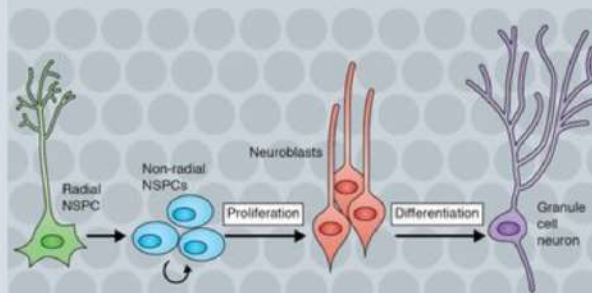
### Human brain



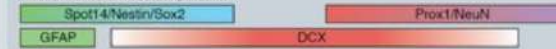
## Adult neurogenic niches

### Dentate gyrus (DG)

Adult hippocampal NSPCs give rise to glutamatergic granule cells of the DG via a well characterized, multistep process. Quiescent radial glia-like NSPCs enter the cell cycle and give rise to transiently amplifying non-radial glia cells. These cells go on to form immature neurons that integrate into the pre-existing neural network over the course of several weeks.

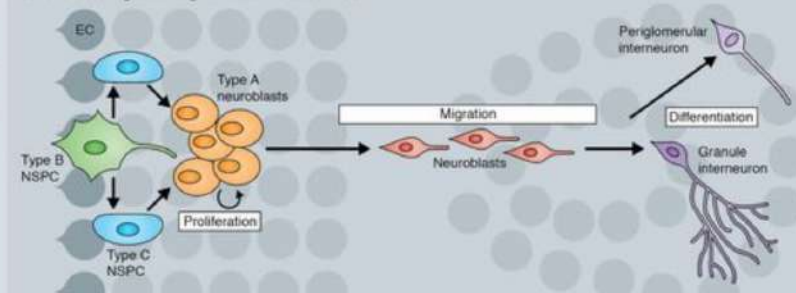


#### Characteristic marker expression



### Subventricular zone (SVZ)

Adult SVZ NSPCs reside below an ependymal cell (EC) layer in the wall of the lateral ventricles where they contact the ventricles through long processes. These NSPCs give rise to more proliferative transit-amplifying progenitors (type C) that generate predominantly immature neurons and few glial cells. From the SVZ newborn cells migrate through the RMS towards the OB.

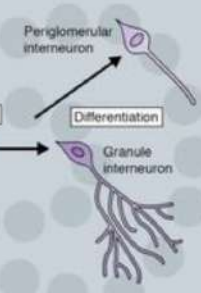


#### Characteristic marker expression

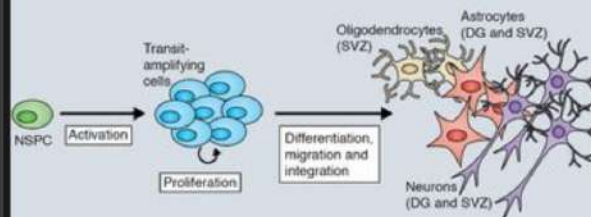


### Olfactory bulb (OB)

Neuroblasts reaching the OB preferentially differentiate into olfactory GABAergic granule neurons and dopaminergic periglomerular neurons that integrate into the pre-existing OB circuitry over the course of several weeks.



## Molecular mechanisms regulating adult neurogenesis



	Activation/proliferation	Differentiation	Migration	Integration
DG	Wnt, Shh, Sox2, Notch, BMP, neurotransmitters (e.g. GABA), EGF, FGF2, IGF2, VEGF, lipid metabolism, TNF $\alpha$ , IL6, glutamate	NeuroD1, Prox1, Sox2, MBD1, CREB signaling, neurotransmitters, glutamate, BDNF	Disc1, Cdk5, reelin signaling	Disc1, RhoGTPases, Cdk5 neuronal activity
SVZ/RMS/OB	Wnt, Shh, BMP, Notch signaling, Sox2, EGF, FGF2, IGF2, VEGF, neurotransmitters, TNF $\alpha$ , glutamate, BDNF	Ascl1, Dlx2, Pax6, Gsx2, Sp1, miR-124, BAF complex, CREB signaling, neurotransmitters, glutamate	Extracellular matrix and cell-cell interactions	RhoGTPases, CREB signaling, neuronal activity

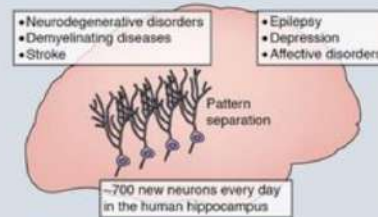
## Functional significance of adult neurogenesis

### Disease

Many rodent models of diseases are associated with abnormal neurogenesis, including Alzheimer's disease, Parkinson's disease, Huntington's disease, demyelinating disease, stroke, epilepsy and depression.

### Memory

Newborn neurons in the hippocampus and the OB play a role in certain forms of olfactory and hippocampal learning and memory, such as DG-mediated pattern separation.



## Systemic regulation of adult neurogenesis

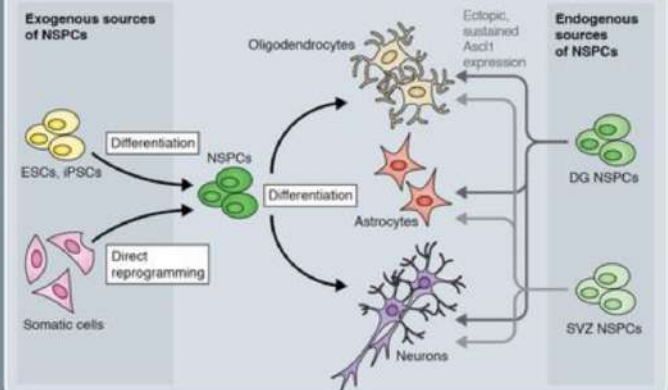
- Exercise
- Learning
- Enriched environment
- Seizures (aberrant)



- Stress
- Age
- Inflammation
- Alcohol

## Cell sources for brain repair

Multipotent NSPCs offer a source of neurons, astrocytes and oligodendrocytes, which can be harnessed for brain repair. NSPCs can be generated via differentiation of pluripotent stem cells (ESCs and iPSCs) or via direct reprogramming of somatic cells, and then transplanted directly into the brain. Alternatively, NSPCs can be activated from endogenous sources within the DG and SVZ.





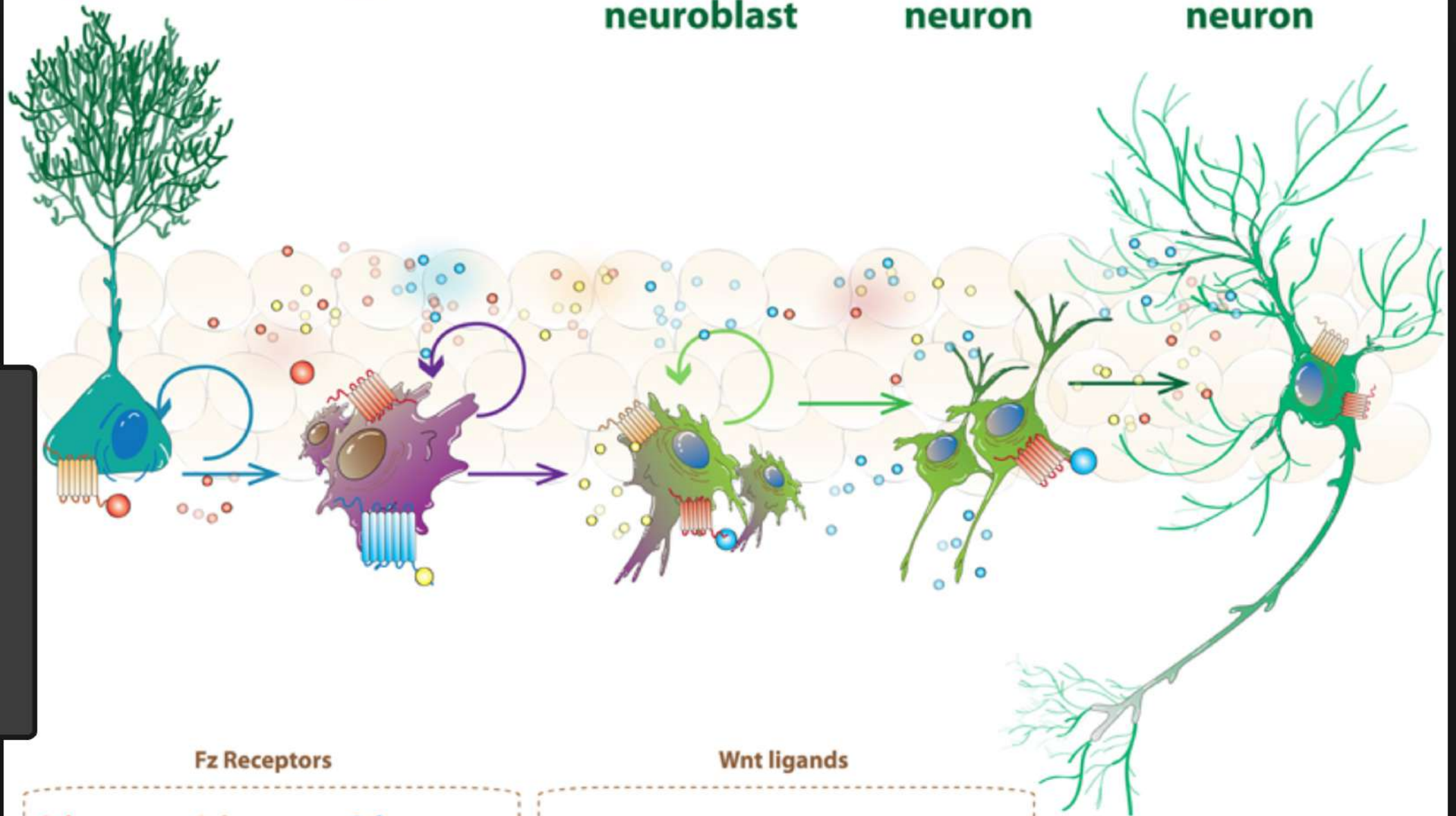
Type 1 cell

Type 2 cell

Type 3 cell  
neuroblast

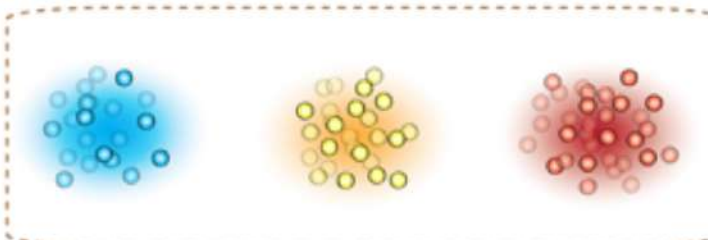
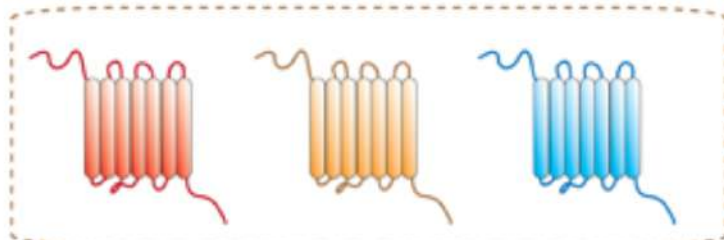
Immature  
neuron

Mature granule  
neuron



Fz Receptors

Wnt ligands





ter - Decoding the Antikythera Mechanism - Full Documentary HD

Up next



View

Hide case



Help



speed rotation=1.00



*The Antikythera mechanism*

Movement



Reset



Rotation



Reset



0:13 / 7:21

Volume=1.00

Calendar rotation=114.60







